

Kenya - Assessing the Educational Impact of Malaria Prevention in Kenyan Schools 2010-2012

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Sampling

Sampling Procedure

School selection was made from the 197 government primary schools in Kwale and Msambweni districts. In Kwale district, a separate study is evaluating the impact of an alternative literacy intervention in two of the four zones; therefore only 20 schools in this district were included in our study allowing the two interventions to proceed without leakage. In Msambweni district, 81 of 112 schools were selected; schools 70 km or further away from the project office, were excluded due to logistical constraints.

The randomization of the 101 schools into the four experimental groups was conducted in two stages, each involving public randomization ceremonies:

Stage 1 - Literacy intervention randomization

- a) Clusters of schools (groups of between 3-6 schools that meet and share information) were randomised either to receive the literacy intervention or to serve as a control schools.
- b) This randomization was stratified by (i) cluster size, to ensure equal numbers of schools in the experimental groups; and (ii) average primary school leaving exam scores across the cluster, to balance the two groups for school achievement.
- c) District officials and representatives from all 26 school clusters were invited to a meeting. Volunteers were asked to randomly draw envelopes each containing a cluster name from 10 pre-stratified ballot boxes and to sequentially place the envelopes in group A and group B.

Stage 2 - Health intervention randomization

- a) The health intervention was randomly allocated amongst the 51 schools assigned to the literacy intervention and the 50 schools allocated to serve as control schools during the first randomization.
- b) Schools were stratified by average primary school leaving exam scores into 5 quintiles and by literacy intervention group, producing 10 strata overall.
- c) Representatives from the 101 schools and local communities were invited to this randomization ceremony. Volunteers were asked to draw envelopes from the 10 pre-stratified ballot boxes and sequentially place the envelopes in group 1 and group 2.

During January and February 2010, schools were visited and a census of all children in classes 1 and 5 was conducted, including children absent on the day of visit. This census served as a basis for making a random selection of 25 children with consent from class 1 and 30 children with consent from class 5. Fewer children were selected from class 1 because of the extra educational assessments undertaken with these children and the practical feasibility of conducting the tests in a single day. Some of the classes were small, and this meant that in these classes all children with consent were recruited.

Of the 5,233 children enrolled initially, 4,446 (85.0%) were included in the 12 month follow-up health survey and 4201 (80.3%) were included in the 24 month health survey. Overall, 4,656 (89.0%) of children were included in the 9 month follow-up education survey and 4,106 (78.5%) in the 24 month follow-up survey.

Questionnaires

Overview

The following questionnaires and forms are available:

1) School Questionnaire

The school questionnaire is administered to the head teachers of each school during the initial school selection; if absent, the deputy head was interviewed. Information is collected on the characteristics of the school such as the number of boys and girls enrolled in each class, examination results in English, mathematics and Kiswahili, school features such as number of desks and teachers, facilities available such as latrines and the presence of school health activities and materials. Locations of each school were mapped using a handheld Global Positioning System (GPS) receiver, (eTrex Garmin Ltd., Olathe, KS).

2) Parent questionnaire for class 1 students

The parent questionnaire for class 1 students assesses the educational and socio-economic environment of the children's households. This is administered to the parent or guardian at the time of consent. Questions relate to their own reading ability, schooling, and involvement in their children's school, as well as questions on family composition, household construction, asset ownership and mosquito net ownership and use.

3) Parent questionnaire for class 5 students

The parent questionnaire for class 5 students assesses the educational and socio-economic environment of the children's households. This is administered to the parent or guardian at the time of consent. The section on education environment is reduced as the literacy intervention was focused on the class 1 children, so a less extensive knowledge of attitudes to education was required for parents of class 5 children. Questions relate to their schooling level achieved, as well as questions on family composition, household construction, asset ownership, and mosquito net ownership and use.

4) Nurse survey form for classes 1 and 5

The child ID, child name, and parent name of the randomly selected children are already entered on the form before arrival at the school. The nurse records the attendance of each child, completing the reasons using the codes at the bottom of the form. Height, weight and temperature of each child is recorded on the form. The child is also asked their age, which is recorded.

5) Health Technician survey form for classes 1 and 5

The child ID, child name, and parent name of the randomly selected children are already entered on the form before arrival at the school. The technician notes whether the child is present, and then records the hemoglobin reading, whether or not a blood slide has been taken, and the timing and result of the malaria rapid diagnostic test (RDT). This form is for assessment of children in the intervention schools where *P falciparum* infection is assessed.

Data Collection

Data Collection Dates

Start	End	Cycle
2010	2012	N/A

Data Collection Mode

Face-to-face [f2f]

DATA COLLECTION NOTES

The study was approved by the Kenya Medical Research Institute and National Ethics Review Committee (SSC No. 1543), the London School of Hygiene & Tropical Medicine Ethics Committee (5503), and the Harvard University Committee on the Use of Human Subjects in Research (F17578-101). Prior to the randomization, meetings were held with community and school leaders and parents/guardians in each school to explain the study objectives and procedures. Parents/guardians of all children in class 1 and 5 were requested to provide individual written informed consent and they were given the option to withdraw their child from the study at any time. Prior to every IST round or assessment the procedures were explained to the children and they were required to provide verbal assent. An independent data monitoring committee reviewed the trial protocol, data analysis plan and preliminary results.

Follow-up

Cross sectional health surveys were carried out at 12 and 24 months. During these surveys, temperature, weight and height were measured and a finger prick blood sample was collected for determination of malaria parasitaemia and Hb. Children with an axillary temperature $\geq 37.5^{\circ}\text{C}$ were tested using a RDT, providing an on the spot diagnosis for malaria and treatment was administered as per national guidelines.

Laboratory methods

Hb was measured using a portable haemoglobinometer (Hemocue, ngelholm, Sweden). Thick and thin blood films were stained with Giemsa, asexual parasites were counted against 200 white blood cells (WBC), and parasite density was estimated assuming an average WBC count of 8000 cells/L. A smear was considered negative after reviewing 100 high-powered fields. Thin blood smears were reviewed for species identification. All blood slides were read independently by two microscopists who were blinded to group allocation. Discrepant results were resolved by a third microscopist.

Attention and educational achievement

Tests of sustained attention and educational achievement were administered at baseline, 9 months and 24 months. Sustained attention was a primary outcome. This was assessed through the code transmission test, adapted from the TEA-Ch (Tests of everyday attention for children) battery.

The secondary outcome of educational achievement was measured through tests of literacy and numeracy. Literacy was assessed through group administered English spelling tests, adapted from PALS (Phonological Awareness Literacy Screening), with the younger classes asked to spell five 3-letter words and credit given for phonetically acceptable choices for each letter and the older classes asked to spell 25 words with credit given for correctly spelling the features and sound combinations of the word. Numeracy assessments involved an oral test of basic arithmetic for younger children at baseline and 9 month follow-up and written arithmetic at 24 month follow-up and a written arithmetic test throughout for older children. All educational assessments were piloted prior to use in the baseline and follow-up evaluations.

Data Collectors

Name	Abbreviation	Affiliation
Kenya Medical Research Institute	KEMRI	

Data Processing

Other Processing

Data were double-entered, consistency checks were performed and all analysis was conducted using Stata software version 12.1. The pre-specified primary outcome measure was the prevalence of anaemia, defined according to age and sex corrected World Health Organisation (WHO) thresholds: haemoglobin concentration <110g/l in children under 5 years; <115g/l in children 5 to 11 years; <120g/l in females 12 years and over and males 12 to 15 years old; and <130g/l in males over 15 years, with no adjustment made for altitude. The pre-specified secondary outcomes were the prevalence of *P.falciparum*, scores for code transmission, spelling and arithmetic. Reported information on ownership of household assets and household construction was used to construct wealth indices using principal component analysis [43] and resulting scores were divided into quintiles.

Anthropometric measurements were processed using the WHO Anthroplus Stata macro to derive indicators of stunting, wasting and underweight.

Data Appraisal

No content available

File Description

Variable List

microdata_IST_IE_data_041113_Stata12

Content
Cases 18703
Variable(s) 105
Structure Type:
Keys: ()
Version
Producer
Missing Data

Variables

ID	Name	Label	Type	Format	Question
V1	sch_id		discrete	numeric	
V2	child_id	Child ID	discrete	numeric	
V3	indicator		discrete	numeric	
V4	study_grp	Intervention group	discrete	numeric	
V5	MAL_grp	Malaria intervention	discrete	numeric	
V6	LIT_grp	Literacy intervention	discrete	numeric	
V7	class_m	Class	discrete	numeric	
V8	refused	parent refused consent	discrete	numeric	
V9	consent	child has consent	discrete	numeric	
V10	study_child	Study child (i.e. >1 educ task + anaemia (all schools) + slide (malaria int sch	discrete	numeric	
V11	withdrawn	Withdrawn during study	discrete	numeric	
V12	final_withdraw_date_formatted	Withdrawal date (formatted) - FINAL	discrete	character	
V13	dead	Died during follow-up	discrete	numeric	
V14	date_death_final_formatted	Date of death (approx) - formatted	discrete	character	
V15	withdrawn_dead	Study child: dead or withdrawn during follow-up	discrete	numeric	
V16	bl_edassess	BL Ed assessed (C1+C5)	discrete	numeric	
V17	withdrawn_bl	child withdrawn at baseline data collection	discrete	numeric	
V18	bl_hlthassess	Health assessed i.e. anaemia (& fal if MAL INT) at baseline (only for those not	discrete	numeric	
V19	FU1_edassess	Study child + not withdrawn/dead FU1 educ + FU1 Ed assessed (C1+C5)	discrete	numeric	
V20	FU1_hlthassess	Study child + not withdrawn/dead FU1 health + anaemia or falciparum (i.e. at lea	discrete	numeric	
V21	FU2_edassess	FU2 educ (spell or attention or numeracy) available (accounting for withdrawals	discrete	numeric	
V22	FU2_hlthassess	Study child + not withdrawn/dead at FU2 health + anaemia or falciparum (i.e. at	discrete	numeric	
V23	age_child	Age at BL (TO BE USED FOR ANALYSIS)	discrete	numeric	
V24	age_cat2	Age cat (child-reported) - used in BL paper	discrete	numeric	
V25	age_child_fu1	age at FU1	discrete	numeric	

ID	Name	Label	Type	Format	Question
V26	age_child_fu2	age at FU2	discrete	numeric	
V27	sex	Sex	discrete	numeric	
V28	BL_numeracy_younger	Class 1 Arithmetic: Addition (score: 0-30)	discrete	numeric	
V29	BL_numeracy_older	Class 5 Numeracy: written numeracy (score: 0-38)	contin	numeric	
V30	BL_attention_younger	Class 1 Attention: Pencil tap	discrete	numeric	
V31	BL_attention_older	Class 5 Attention: Double digit code transmision (score: 0-20)	discrete	numeric	
V32	BL_spelling_younger	Class 1 Literacy: Spelling(score: 0-20)	discrete	numeric	
V33	BL_spelling_older	Class 5 Literacy: Spelling - ftr pts + total worlds correct (score: 0-78)	contin	numeric	
V34	BL_hb	baseline haemoglobin concentration	contin	numeric	
V35	BL_malaria	baseline RDT result	discrete	numeric	
V36	BL_height	baseline height in cm	contin	numeric	
V37	BL_weight	baseline weight in kg	contin	numeric	
V38	BL_temp	baseline auxiliary temperature in celcius	contin	numeric	
V39	BL_falciparum	P.falciparum (positive by both microscopy readers or resolved by 3rd)	discrete	numeric	
V40	BL_anaemia	Anaemia (based on child-reported age at baseline)	discrete	numeric	
V41	BL_stunted	child is stunted?	discrete	numeric	
V42	BL_underweight	child is underweight?	discrete	numeric	
V43	BL_thin	child is thin?	discrete	numeric	
V44	BL_anaemia_cat	Anaemia category	discrete	numeric	
V45	BL_anaemia_mild_mod_severe	Mild-moderate-severe anaemia (<110 g/l)	discrete	numeric	
V46	BL_ses	Baseline SES (from PCA - as used in BL paper)	discrete	numeric	
V47	net_child	Child sleeps under a net	discrete	numeric	
V48	lastnightnet_child	Child sleeps under a net last night	discrete	numeric	
V49	bicycle	Household owns a bicycle	discrete	numeric	
V50	motorcycle	Household owns a motorcycle	discrete	numeric	
V51	radio	Household owns a radio	discrete	numeric	
V52	television	Household owns a TV	discrete	numeric	
V53	mobilephone	Household owns a mobilephone	discrete	numeric	
V54	electricity	Household has electricity	discrete	numeric	
V55	pitlatrine	Household has a pit latrine	discrete	numeric	
V56	sfp	School feeding programme	discrete	numeric	
V57	deworm	School deowrming done in last 12 months	discrete	numeric	
V58	mal_control	Malaria control programme	discrete	numeric	
V59	division		discrete	numeric	
V60	cluster	School-cluster (unit randomisation to literacy intervention)	discrete	character	
V61	mal_pot	stratification for malaria group randomisation	discrete	numeric	
V62	kcpemean_mal	School mean exam score (2008)	contin	numeric	
V63	cluster_size2		discrete	numeric	

ID	Name	Label	Type	Format	Question
V64	cluster_KCPE_mean	Cluster KCPE (mean of all schools in cluster)	contin	numeric	
V65	schlevel_comp	Education of household head	discrete	numeric	
V66	crowding	number of people in house	discrete	numeric	
V67	brick_walls	house has brick/cement walls?	discrete	numeric	
V68	cement_floor	house has cement floors?	discrete	numeric	
V69	iron_roof	house has iron/tile roof?	discrete	numeric	
V70	cov_water	water supply for house?	discrete	numeric	
V71	visit	Follow-up visit	discrete	numeric	
V72	attention_younger	Class 1 Attention FOR ANALYSIS: single digit code transmission	discrete	numeric	
V73	attention_older	Class 5 Attention FOR ANALYSIS: double digit code transmission	contin	numeric	
V74	spelling_younger	Class 1 Spelling FOR ANALYSIS (score: 0-20)	discrete	numeric	
V75	spelling_older	Class 5 Spelling FOR ANALYSIS (score: 0-78)	contin	numeric	
V76	numeracy_younger	Class 1 Numeracy FOR ANALYSIS: Arithmetic -addition(0-30 at FU1), written (0-38)	contin	numeric	
V77	numeracy_older	Class 5 Numeracy FOR ANALYSIS: written (0-38)	contin	numeric	
V78	FU_health_status	Health follow-up (0= neither; 1= FU1 only; 2 = FU2 only; 3 = both)	discrete	numeric	
V79	FU_educ_status	Educ follow-up -spelling/attention/numeracy (0= neither; 1= FU1 only; 2 = FU2 o	discrete	numeric	
V80	study_child_FU1_educ_analysis	Study child with consent + not withdrawn/dead FU1 educ	discrete	numeric	
V81	study_child_FU1_health_analysis	Study child with consent + not withdrawn/dead FU1 health	discrete	numeric	
V82	study_child_FU2_analysis	Study child with consent + not withdrawn/dead FU2 educ	discrete	numeric	
V83	FU_edassess	FU educ (spell, numer or attention), visit-specific (accounts withdraw/dead)	discrete	numeric	
V84	FU_healthassess	FU health (Pf or anaemia), visit-specific (accounts withdrawn/dead)	discrete	numeric	
V85	fu1_educ_withdrawn	Withdrawn at FU1 educ analysis	discrete	numeric	
V86	fu1_health_withdrawn	Withdrawn at FU1 health analysis	discrete	numeric	
V87	fu2_educ_withdrawn	Withdrawn at FU2 educ analysis	discrete	numeric	
V88	fu2_health_withdrawn	Withdrawn at FU2 health analysis	discrete	numeric	
V89	dead_9mth_educ	Death status at 9mth educ i.e. FU1 (for eventual deaths)	discrete	numeric	
V90	dead_12mth_health	Death status at 12mth health i.e. FU1 (for eventual deaths)	discrete	numeric	
V91	dead_24mth_educ	Death status at 24mth educ i.e. FU2 (for eventual deaths)	discrete	numeric	
V92	dead_24mth_health	Death status at 24mth health i.e. FU2 (for eventual deaths)	discrete	numeric	
V93	fal_categories_INFERRED_3grps	BASELINE falciparum prev categories (using BL and FU1 data for INT and control)	discrete	numeric	
V94	falciparum	P.falciparum (positive by both microscopy readers or resolved by 3rd)	discrete	numeric	
V95	anaemia	Age-specific anaemia (using visit-specific age, based on child-reported BL age)	discrete	numeric	
V96	anaemia_cat	Anaemia category	discrete	numeric	

ID	Name	Label	Type	Format	Question
V97	hb	haemoglobin concentration g/l	contin	numeric	
V98	height	height in cm	contin	numeric	
V99	weight	weight in kg	contin	numeric	
V100	temp	axillary temperature in celcius	contin	numeric	
V101	term_of_transfer	First visit number of transfer	discrete	numeric	
V102	FU1_ed_include_TRANSFER	FU1 ed: study child not withdrawn/dead/transferred	discrete	numeric	
V103	FU1_health_include_TRANSFER	FU1 health: study child not withdrawn/dead/transferred	discrete	numeric	
V104	FU2_ed_include_TRANSFER	FU2 ed: study child not withdrawn/dead/transferred	discrete	numeric	
V105	FU2_health_include_TRANSFER	FU2 health: study child not withdrawn/dead/transferred	discrete	numeric	

(sch_id)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 4
Decimals: 0
Range: 1005-4162

Valid cases: 18703
Invalid: 0

Child ID (child_id)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 7
Decimals: 0
Range: 1005001-4162124

Valid cases: 18703
Invalid: 0
Minimum: 1005001
Maximum: 4162124

(indicator)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-1

Valid cases: 13527
Invalid: 5176

Intervention group (study_grp)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 18703
Invalid: 0

Malaria intervention (MAL_grp)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 18703
Invalid: 0

Literacy intervention (LIT_grp)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 18703
Invalid: 0

Class (class_m)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-5

Valid cases: 18703
Invalid: 0

parent refused consent (refused)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 18703
Invalid: 0

child has consent (consent)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 18703
Invalid: 0

Study child (i.e. >1 educ task + anaemia (all schools) + slide (malaria int sch (study_child)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 18703
Invalid: 0

Withdrawn during study (withdrawn)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 10409
 Invalid: 8294

Withdrawal date (formatted) - FINAL

(final_withdraw_date_formatted)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: character
 Width: 10

Valid cases: 157
 Minimum: NaN
 Maximum: NaN

Died during follow-up (dead)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 10409
 Invalid: 8294

Date of death (approx) - formatted (date_death_final_formatted)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: character
 Width: 10

Valid cases: 20

Study child: dead or withdrawn during follow-up (withdrawn_dead)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 10409
 Invalid: 8294

BL Ed assessed (C1+C5) (bl_edassess)

File: microdata_IST_IE_data_041113_Stata12

BL Ed assessed (C1+C5) (bl_edassess)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 18703
 Invalid: 0

child withdrawn at baseline data collection (withdrawn_bl)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 18703
 Invalid: 0

Health assessed i.e. anaemia (& fal if MAL INT) at baseline (only for those not (bl_hlthassess))

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 18703
 Invalid: 0

Study child + not withdrawn/dead FU1 educ + FU1 Ed assessed (C1+C5) (FU1_edassess)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 18703
 Invalid: 0

Study child + not withdrawn/dead FU1 health + anaemia or falciparum (i.e. at lea (FU1_hlthassess))

File: microdata_IST_IE_data_041113_Stata12

Overview

Study child + not withdrawn/dead FU1 health + anaemia or falciparum (i.e. at lea (FU1_hlthassess))

File: microdata_IST_IE_data_041113_Stata12

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 18703
Invalid: 0

FU2 educ (spell or attention or numeracy) available (accounting for withdrawals (FU2_edassess))

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10409
Invalid: 8294

Study child + not withdrawn/dead at FU2 health + anaemia or falciparum (i.e. at (FU2_hlthassess))

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10409
Invalid: 8294

Age at BL (TO BE USED FOR ANALYSIS) (age_child)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 2
Decimals: 0
Range: 3-99

Valid cases: 13561
Invalid: 5142
Minimum: 3
Maximum: 99

Age cat (child-reported) - used in BL paper (age_cat2)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-2

Valid cases: 10409
Invalid: 8294

age at FU1 (age_child_fu1)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete	Valid cases: 13561
Format: numeric	Invalid: 5142
Width: 3	Minimum: 4
Decimals: 0	Maximum: 100
Range: 4-100	

age at FU2 (age_child_fu2)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete	Valid cases: 13561
Format: numeric	Invalid: 5142
Width: 3	Minimum: 5
Decimals: 0	Maximum: 101
Range: 5-101	

Sex (sex)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete	Valid cases: 10409
Format: numeric	Invalid: 8294
Width: 1	
Decimals: 0	
Range: 1-2	

Class 1 Arithmetic: Addition (score: 0-30) (BL_numeracy_younger)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete	Valid cases: 4973
Format: numeric	Invalid: 13730
Width: 2	
Decimals: 0	
Range: 0-17	

Class 5 Numeracy: written numeracy (score: 0-38)

(BL_numeracy_older)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous	Valid cases: 5296
Format: numeric	Invalid: 13407
Width: 2	Minimum: 0
Decimals: 0	Maximum: 38
Range: 0-38	

Class 1 Attention: Pencil tap (BL_attention_younger)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 0-20

Valid cases: 4890
 Invalid: 13813

Class 5 Attention: Double digit code transmission (score: 0-20)
(BL_attention_older)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 0-20

Valid cases: 5329
 Invalid: 13374

Class 1 Literacy: Spelling(score: 0-20) (BL_spelling_younger)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 0-20

Valid cases: 4959
 Invalid: 13744

Class 5 Literacy: Spelling - ftr pts + total worlds correct (score:
0-78) (BL_spelling_older)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 0-63

Valid cases: 5301
 Invalid: 13402
 Minimum: 0
 Maximum: 63

baseline haemoglobin concentration (BL_hb)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous
 Format: numeric
 Width: 3
 Decimals: 0
 Range: 42-180

Valid cases: 9648
 Invalid: 9055
 Minimum: 42
 Maximum: 180

baseline RDT result (BL_malaria)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete	Valid cases: 4908
Format: numeric	Invalid: 13795
Width: 1	
Decimals: 0	
Range: 0-1	

baseline height in cm (BL_height)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous	Valid cases: 9658
Format: numeric	Invalid: 9045
Width: 4	Minimum: 98.5
Decimals: 0	Maximum: 215
Range: 98.5-215	

baseline weight in kg (BL_weight)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous	Valid cases: 9658
Format: numeric	Invalid: 9045
Width: 16	Minimum: 10.4
Decimals: 0	Maximum: 68.3
Range: 10.3999996185303-68.3000030517578	

baseline auxiliary temperature in celcius (BL_temp)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous	Valid cases: 4874
Format: numeric	Invalid: 13829
Width: 16	Minimum: 25
Decimals: 0	Maximum: 38.2
Range: 25-38.2000007629394	

P.falciparum (positive by both microscopy readers or resolved by 3rd) (BL_falciparum)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete	Valid cases: 4806
Format: numeric	Invalid: 13897
Width: 1	
Decimals: 0	
Range: 0-1	

Anaemia (based on child-reported age at baseline) (BL_anaemia)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 9648
 Invalid: 9055

child is stunted? (BL_stunted)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 9676
 Invalid: 9027

child is underweight? (BL_underweight)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 3893
 Invalid: 14810

child is thin? (BL_thin)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 9674
 Invalid: 9029

Anaemia category (BL_anaemia_cat)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-3

Valid cases: 9648
 Invalid: 9055

Mild-moderate-severe anaemia (<110 g/l)

(BL_anaemia_mild_mod_severe)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 9648
 Invalid: 9055

Baseline SES (from PCA - as used in BL paper) (BL_ses)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-5

Valid cases: 10282
 Invalid: 8421

Child sleeps under a net (net_child)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 10238
 Invalid: 8465

Child sleeps under a net last night (lastnightnet_child)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 6669
 Invalid: 12034

Household owns a bicycle (bicycle)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 10282
 Invalid: 8421

Household owns a motorcycle (motorcycle)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10282
Invalid: 8421

Household owns a radio (radio)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10282
Invalid: 8421

Household owns a TV (television)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10282
Invalid: 8421

Household owns a mobilephone (mobilephone)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10282
Invalid: 8421

Household has electricity (electricity)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10282
Invalid: 8421

Household has a pit latrine (pitlatrine)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10282
Invalid: 8421

School feeding programme (sfp)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10409
Invalid: 8294

School deowrming done in last 12 months (deworm)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10409
Invalid: 8294

Malaria control programme (mal_control)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10307
Invalid: 8396

(division)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 10409
Invalid: 8294

School-cluster (unit randomisation to literacy intervention) (cluster)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete	Valid cases: 10409
Format: character	Invalid: 0
Width: 13	

stratification for malaria group randomisation (mal_pot)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete	Valid cases: 10409
Format: numeric	Invalid: 8294
Width: 2	
Decimals: 0	
Range: 1-10	

School mean exam score (2008) (kcpemean_mal)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous	Valid cases: 10409
Format: numeric	Invalid: 8294
Width: 16	Minimum: 166.7
Decimals: 0	Maximum: 318.1
Range: 166.662902832031-318.059997558594	

(cluster_size2)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete	Valid cases: 10409
Format: numeric	Invalid: 8294
Width: 1	
Decimals: 0	
Range: 3-6	

Cluster KCPE (mean of all schools in cluster) (cluster_KCPE_mean)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous	Valid cases: 10409
Format: numeric	Invalid: 8294
Width: 16	Minimum: 198.9
Decimals: 0	Maximum: 249.4
Range: 198.945236206055-249.380355834961	

Education of household head (schlevel_comp)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-3

Valid cases: 10232
 Invalid: 8471

number of people in house (crowding)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 10240
 Invalid: 8463

house has brick/cement walls? (brick_walls)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 10282
 Invalid: 8421

house has cement floors? (cement_floor)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 10282
 Invalid: 8421

house has iron/tile roof? (iron_roof)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 10282
 Invalid: 8421

water supply for house? (cov_water)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 10280
 Invalid: 8423

Follow-up visit (visit)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 10352
 Invalid: 8351

Class 1 Attention FOR ANALYSIS: single digit code transmission (attention_younger)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 0-20

Valid cases: 4251
 Invalid: 14452

Class 5 Attention FOR ANALYSIS: double digit code transmission (attention_older)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 0-20

Valid cases: 4470
 Invalid: 14233
 Minimum: 0
 Maximum: 20

Class 1 Spelling FOR ANALYSIS (score: 0-20) (spelling_younger)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 0-20

Valid cases: 4253
 Invalid: 14450

Class 5 Spelling FOR ANALYSIS (score: 0-78) (spelling_older)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous	Valid cases: 4462
Format: numeric	Invalid: 14241
Width: 2	Minimum: 0
Decimals: 0	Maximum: 69
Range: 0-69	

Class 1 Numeracy FOR ANALYSIS: Arithmetic -addition(0-30 at FU1), written (0-38 (numeracy_younger)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous	Valid cases: 4256
Format: numeric	Invalid: 14447
Width: 2	Minimum: 0
Decimals: 0	Maximum: 29
Range: 0-29	

Class 5 Numeracy FOR ANALYSIS: written (0-38) (numeracy_older)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous	Valid cases: 4487
Format: numeric	Invalid: 14216
Width: 2	Minimum: 0
Decimals: 0	Maximum: 38
Range: 0-38	

Health follow-up (0= neither; 1= FU1 only; 2 = FU2 only; 3 = both) (FU_health_status)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete	Valid cases: 10352
Format: numeric	Invalid: 8351
Width: 1	
Decimals: 0	
Range: 0-3	

Educ follow-up -spelling/attention/numeracy (0= neither; 1= FU1 only; 2 = FU2 o (FU_educ_status)

File: microdata_IST_IE_data_041113_Stata12

Overview

Educ follow-up -spelling/attention/numeracy (0= neither; 1= FU1 only; 2 = FU2 o (FU_educ_status)

File: microdata_IST_IE_data_041113_Stata12

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-3

Valid cases: 10352
Invalid: 8351

Study child with consent + not withdrawn/dead FU1 educ (study_child_FU1_educ_analysis)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10352
Invalid: 8351

Study child with consent + not withdrawn/dead FU1 health (study_child_FU1_health_analysis)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10352
Invalid: 8351

Study child with consent + not withdrawn/dead FU2 educ (study_child_FU2_analysis)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10352
Invalid: 8351

FU educ (spell, numer or attention), visit-specific (accounts withdraw/dead) (FU_edassess)

File: microdata_IST_IE_data_041113_Stata12

Overview

FU educ (spell, numer or attention), visit-specific (accounts withdraw/dead) (FU_edassess)

File: microdata_IST_IE_data_041113_Stata12

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10352
Invalid: 8351

FU health (Pf or anaemia), visit-specific (accounts withdrawn/dead) (FU_healthassess)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10352
Invalid: 8351

Withdrawn at FU1 educ analysis (fu1_educ_withdrawn)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10352
Invalid: 8351

Withdrawn at FU1 health analysis (fu1_health_withdrawn)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10352
Invalid: 8351

Withdrawn at FU2 educ analysis (fu2_educ_withdrawn)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10352
Invalid: 8351

Withdrawn at FU2 health analysis (fu2_health_withdrawn)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 10352
 Invalid: 8351

Death status at 9mth educ i.e. FU1 (for eventual deaths)

(dead_9mth_educ)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 10352
 Invalid: 8351

Death status at 12mth health i.e. FU1 (for eventual deaths)

(dead_12mth_health)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 10352
 Invalid: 8351

Death status at 24mth educ i.e. FU2 (for eventual deaths)

(dead_24mth_educ)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-1

Valid cases: 10352
 Invalid: 8351

Death status at 24mth health i.e. FU2 (for eventual deaths)

(dead_24mth_health)

File: microdata_IST_IE_data_041113_Stata12

Overview

Death status at 24mth health i.e. FU2 (for eventual deaths)
(dead_24mth_health)

File: microdata_IST_IE_data_041113_Stata12

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10352
Invalid: 8351

BASELINE falciparum prev categories (using BL and FU1 data for
INT and control) (fal_categories_INFERRED_3grps)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-3

Valid cases: 10352
Invalid: 8351

P.falciparum (positive by both microscopy readers or resolved by
3rd) (falciparum)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 8522
Invalid: 10181

Age-specific anaemia (using visit-specific age, based on
child-reported BL age) (anaemia)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 8643
Invalid: 10060

Anaemia category (anaemia_cat)

File: microdata_IST_IE_data_041113_Stata12

Overview

Anaemia category (anaemia_cat)

File: microdata_IST_IE_data_041113_Stata12

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-3

Valid cases: 8643
Invalid: 10060

haemoglobin concentration g/l (hb)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous
Format: numeric
Width: 3
Decimals: 0
Range: 0-174

Valid cases: 8643
Invalid: 10060
Minimum: 0
Maximum: 174

height in cm (height)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous
Format: numeric
Width: 16
Decimals: 0
Range: 103-184.399993896484

Valid cases: 8660
Invalid: 10043
Minimum: 103
Maximum: 184.4

weight in kg (weight)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous
Format: numeric
Width: 16
Decimals: 0
Range: 12-84.0999984741211

Valid cases: 8657
Invalid: 10046
Minimum: 12
Maximum: 84.1

axillary temperature in celcius (temp)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Continuous
Format: numeric
Width: 16
Decimals: 0
Range: 26.3999996185303-44.5

Valid cases: 6522
Invalid: 12181
Minimum: 26.4
Maximum: 44.5

First visit number of transfer (term_of_transfer)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 2-7

Valid cases: 618
Invalid: 18085

FU1 ed: study child not withdrawn/dead/transferred
(FU1_ed_include_TRANSFER)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10409
Invalid: 8294

FU1 health: study child not withdrawn/dead/transferred
(FU1_health_include_TRANSFER)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10409
Invalid: 8294

FU2 ed: study child not withdrawn/dead/transferred
(FU2_ed_include_TRANSFER)

File: microdata_IST_IE_data_041113_Stata12

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10352
Invalid: 8351

FU2 health: study child not withdrawn/dead/transferred
(FU2_health_include_TRANSFER)

File: microdata_IST_IE_data_041113_Stata12

Overview

FU2 health: study child not withdrawn/dead/transferred
(FU2_health_include_TRANSFER)

File: microdata_IST_IE_data_041113_Stata12

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-1

Valid cases: 10352
Invalid: 8351

Related Materials

Questionnaires

School Questionnaire

Title School Questionnaire
 Language English
 Description The school questionnaire is asked to headteachers at the baseline.
 Filename Kenya malaria IE_School_questionnaire.pdf

Parent Questionnaire for Class 1 Students

Title Parent Questionnaire for Class 1 Students
 Language English
 Filename Kenya malaria IE_Baseline_parent_questionnaire_class1.pdf

Parent Questionnaire for Class 5 Students

Title Parent Questionnaire for Class 5 Students
 Language English
 Filename Kenya malaria IE_Baseline_parent_questionnaire_Class5.pdf

Nurse Health Assessment Form

Title Nurse Health Assessment Form
 Country Kenya
 Language English
 Description This form is for recording height weight and temperature and age at baseline and follow-ups.
 Filename Kenya malaria IE_Nurse_health_assessment_template.pdf

Lab Technician Health Assessment Form

Title Lab Technician Health Assessment Form
 Language English
 Description Lab technician health assessment form for recording the haemoglobin concentration and whether a blood slide was taken at baseline and follow-ups.
 Filename Kenya malaria IE_Lab_technician_health_assessment_template.pdf

Attention Assessment Instruments

Title Attention Assessment Instruments
 Country Kenya
 Language English
 Description Tools for assessing students' attention for baseline (BL), first follow-up (FU1) and second follow-up (FU2) surveys.
 Filename Attention assessment instruments.zip

Spelling Skills Assessment Instruments

Title	Spelling Skills Assessment Instruments
Country	Kenya
Language	English
Description	Tools for assessing students' spelling skills for baseline (BL), first follow-up (FU1) and second follow-up (FU2) surveys.
Filename	Spelling assessment instruments.zip

Numeracy Skills Assessment Instruments

Title	Numeracy Skills Assessment Instruments
Country	Kenya
Language	English
Description	Tools for assessing students' numeracy skills for baseline (BL), first follow-up (FU1) and second follow-up (FU2) surveys.
Filename	Numeracy Assessment Instruments.zip

Reports

Cost analysis of School-Based Intermittent Screening and Treatment of Malaria in Kenya

Title	Cost analysis of School-Based Intermittent Screening and Treatment of Malaria in Kenya
Author(s)	Thomas L Drake, George Okello, Kiambo Njagi, Katherine E Halliday, Matthew CH Jukes, Lindsay Mangham and Simon Brooker
Language	English
Publisher(s)	Drake et al. Malaria Journal 2011, 10:273 http://www.malariajournal.com/content/10/1/273
Filename	Drake et al 2012 (cost IST).pdf

Local Perceptions of Intermittent Screening and Treatment for Malaria in School Children on the South Coast of Kenya

Title	Local Perceptions of Intermittent Screening and Treatment for Malaria in School Children on the South Coast of Kenya
Author(s)	George Okello, Sarah N Ndegwa, Katherine E Halliday, Kara Hanson, Simon J Brooker and Caroline Jones
Date	2012-01-01
Country	Kenya
Language	English
Publisher(s)	Okello et al. Malaria Journal 2012, 11:185 http://www.malariajournal.com/content/11/1/185
Filename	Okello et al 2012 (perceptions).pdf

Plasmodium Falciparum, Anaemia and Cognitive and Educational Performance among School Children in an Area of Moderate Malaria Transmission: Baseline Results of a Cluster Randomized Trial on the Coast of Kenya

Title	Plasmodium Falciparum, Anaemia and Cognitive and Educational Performance among School Children in an Area of Moderate Malaria Transmission: Baseline Results of a Cluster Randomized Trial on the Coast of Kenya
Author(s)	Katherine E. Halliday, Peris Karanja, Elizabeth L. Turner, George Okello, Kiambo Njagi, Margaret M. Dubeck, Elizabeth Allen ³ , Matthew C.H. Jukes and Simon J. Brooker
Date	2012-01-01
Country	Kenya

Language English

Publisher(s) Tropical Medicine and International Health, Volume 17 no 5 pp 532-549 May 2012

Filename Halliday et al 2012.pdf

Challenges for Consent and Community Engagement in the Conduct of Cluster Randomized Trial among School Children in Low Income Settings: Experiences from Kenya

Title Challenges for Consent and Community Engagement in the Conduct of Cluster Randomized Trial among School Children in Low Income Settings: Experiences from Kenya

Author(s) George Okello, Caroline Jones, Maureen Bonareri, Sarah N Ndegwa, Carlos Mcharo, Juddy Kengo, Kevin Kinyua, Margaret M Dubeck, Katherine E Halliday, Matthew CH Jukes, Sassy Molyneux and Simon J Brooker

Date 2013-01-01

Country Kenya

Language English

Publisher(s) Okello et al. Trials 2013, 14:142 <http://www.trialsjournal.com/content/14/1/142>

Filename Okello et al 2013 (consent).pdf

DIME Brief, Kenya: Evaluating the Impact of Malaria on Educational Achievement

Title DIME Brief, Kenya: Evaluating the Impact of Malaria on Educational Achievement

Country Kenya

Language English

Filename DIMEBRIEF Kenya.pdf

Research Brief, the Health and Literacy Intervention (HALI) Project

Title Research Brief, the Health and Literacy Intervention (HALI) Project

Country Kenya

Language English

Filename Final HALI brief 2013 Feb.pdf

Impact of Intermittent Screening and Treatment for Malaria among School Children in Kenya: a Cluster Randomized Trial

Title Impact of Intermittent Screening and Treatment for Malaria among School Children in Kenya: a Cluster Randomized Trial

Author(s) Halliday, Katherine E.; Okello, George; Turner, Elizabeth L.; Njagi, Kiambo; Mcharo, Carlos; Kengo, Juddy; Allen, Elizabeth; Dubeck, Margaret M.; Jukes, Matthew C.H.; Brooker, Simon J.

Date 2014-02-01

Country Kenya

Language English

Filename http://econ.worldbank.org/external/default/main?pagePK=64165259&theSitePK=469382&piPK=64165421&menuPK=64166093&entityID=000158349_20140227134756&cid=DEC_PolicyResearchEN_D_INT

Technical documents

Study Protocol: Improving Educational Achievement and Anaemia of School Children

Title Study Protocol: Improving Educational Achievement and Anaemia of School Children

Author(s) Simon Brooker, George Okello, Kiambu Njagi, Margaret M Dubeck, Katherine E Halliday, Hellen Inyega, Matthew CH Jukes

Date 2010-01-01

Country Kenya

Language English

Publisher(s) Brooker et al. Trials 2010, 11:93 <http://www.trialsjournal.com/content/11/1/93>

Filename Brooker et al 2010 Trials.pdf

Data Dictionary

Title Data Dictionary

Language English

Description For variables in the dataset, the document provides variable type, label, definition/code and description.

Filename Kenya_malaria_IE_datadictionary.pdf

List of Survey Instruments

Title List of Survey Instruments

Language English

Filename Kenya_malaria_IE_documentslist.pdf

Informed Consent Form

Title Informed Consent Form

Language English

Description Informed consent forms for the parents of child enrolled (2 copies signed-one for parent, one for office).

Filename Kenya_malaria_IE_Informed Consent Form 2009.pdf

Parent Information Sheet about the Study, Academic and Clinical Tests

Title Parent Information Sheet about the Study, Academic and Clinical Tests

Language English

Description Information sheet given to every parent at the meeting prior to consenting their child into the project.

Filename Kenya_malaria_IE_Information sheet 2010.pdf

Informed Consent Standard Operating Procedure 2010

Title Informed Consent Standard Operating Procedure 2010

Language English

Description This Standard Operating Procedure (SOP) describes the process to be followed to obtain written informed consent from subjects/guardians of children participating in the study.

Filename Kenya_malaria_IE_Informed Consent SOP 2010.pdf

Baseline Health Assessment Standard Operating Procedure 2010

Title Baseline Health Assessment Standard Operating Procedure 2010

Language English

Description This Standard Operating Procedure (SOP) describes the process for measuring hemoglobin concentration, screening of malaria parasitaemia using rapid diagnostic tests (RDTs), as well as treatment using artemether-lumefantrine (AL).

Filename Kenya_malaria_IE_Baseline Health Survey SOP 2010.pdf

Hemoglobin Concentration Standard Operating Procedure 2010

Title Hemoglobin Concentration Standard Operating Procedure 2010

Language English

Description This Standard Operating Procedure (SOP) describes techniques of operating HemoCue device and correctly obtaining hemoglobin readings from finger-prick blood samples.

Filename Kenya malaria IE_Haemoglobin Concentration SOP 2010.pdf
